

Date: Sat, 2 Apr 94 04:30:24 PST  
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>  
Errors-To: Ham-Equip-Errors@UCSD.Edu  
Reply-To: Ham-Equip@UCSD.Edu  
Precedence: Bulk  
Subject: Ham-Equip Digest V94 #91  
To: Ham-Equip

Ham-Equip Digest                      Sat, 2 Apr 94                      Volume 94 : Issue    91

Today's Topics:

                    Hamfest List - Mid Atlantic States  
                                    Q: FT890 mod  
                    RF and AF speech processors. Was: FT-990 vs TS-850  
                    Which HF rigs have Transverter Jacks?

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>  
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 31 Mar 1994 19:43:38 -0500  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!news.intercon.com!news1.digex.net!  
access.digex.net!not-for-mail@network.ucsd.edu  
Subject: Hamfest List - Mid Atlantic States  
To: ham-equip@ucsd.edu

MID-ATLANTIC HAMFEST LISTING

March 31, 1994

The following is a listing of known hamfests in the MD/NJ/PA/VA area.  
I will update this list as necessary. Please send any additions or  
corrections to me at cps@access.digex.net so that others may benefit.

Thanks,

Chris Smolinski, N3JLY

April 10, 1994:

HAMCOMP '94 8AM-1PM, \$5 adm, \$12 tailgating, \$20 table.  
Trenton State College, Rt 31, Ewing Township.  
Talk-In 146.67-, 146.52 simplex.  
Contact Don Write AA2F (609) 737-1723.

May 15, 1994:

HAMFEST '94, 7AM-2PM, \$5 adm, \$8 tailgating, \$12 tables.  
Middletown Grange Fairgrounds, Penns Park Rd, Wrightstown, PA  
Talk-In 147.09/R, 146.52 simplex  
Contact: George Brechman N3HBT (215) 443-5656

May 21, 1994:

Cherryville Hamfest, 8AM-2PM, \$6 admission, \$10 tailgating, \$15 tables  
Warren County Farmers Fairgrounds, Rt 518 North, Harmony, NJ I78-exit 3.  
Contact Keith Burt, KF5FK, (908) 788-4080 before 10PM  
VE Test Session Contact Marty Grozinski, NS2K, (908) 806-6944 before 9PM  
Talk-In 147.375+ & 146.820-

May 22, 1994:

Great Hagerstown Hamfest, 8AM-3:30PM, \$5 adm, \$5 tailgating, \$20 tables  
Hagerstown Jr College Rec Center, Exit 32B from I-70, right at Edgewood Rd  
Contact Page Pyne or Fred Bailey (301) 714-0688  
VE Exams 9AM contact Pat KQ8E at (304) 289-3576  
Talk-In 146.34+

June 5, 1994:

Ole Virginia Hamfest, 8AM-3PM  
Prince William County Fairgrounds, Manassas, VA

June 19, 1994:

Father's Day Hamfest, 8AM-3PM, \$5 adm, \$5 tailgating  
Walkersville Fire Co, Walkersville, MD, rt 15 to rt 26 to rt 194  
Frederick Amateur Radio Club, PO Box 1260, Frederick, MD 21702  
Talk-In 146.52, 147.06+, 448.425-

July 10, 1994:

Maryland Hamfest, 8AM-?, tailgating opens at 6AM  
Timonium Fairgrounds, York Rd, I-695 to I-83 to Timonium Rd  
BRATS, PO Box 5915, Baltimore, MD 21208  
VE Exams 10AM, Pre-registration required  
Talk-In 147.03+, 224.96-

July 16, 1994:

Red Rose Repeater Assn, 9AM-3PM \$5 adm, \$5 tailgating, \$20 tables  
McCaskey High School, Reservoir & N Franklin Streets, Lancaster, PA  
Red Rose Repeater Assn, PO Box 8316, Lancaster, PA 17604  
Talk-In 147.015+

August 7, 1994:

Southern Patuxent Hamfest, 7AM-2PM, \$5 adm, \$5 tailgating, \$25 tables  
Prince George County Equestrian Center, Upper Marlboro, MD  
Rt 301/ Rt 4, exit 11-A (Rt 4 Pennsylvania Ave) from DC Beltway I-495  
Contact: Southern Patuxent ARC, PO Box 399, St Leonard, MD 20685  
(410) 586-2177  
Talk-In 147.15

Hamfest 94, 8AM-?, \$5 adm, \$3 tailgating  
Bucks County Drive In Theater, rt 611, 6mi N of Pa Turnpike exit 27  
Mid Atlantic Radio Club, PO Box 352, Villanova, PA 19085  
Talk-In 147.06, 145.13

August 14, 1994:

SARA Carroll County Hamfest, 8AM-?, \$5 adm, \$5 tailgating, \$8 tables  
Carroll County Ag Center, Smith Ave, Westminster, MD  
Contact: Alan Parker, KS3L, (410) 859-1475  
SARA Hamfest, 607 Brentwood Rd, Linthicum, MD 21090  
Talk-In 146.52, 224.68, 224.64

Hamfest & Computerfest, 8AM-?, \$4 adm, \$7 tailgating, \$25 tables  
Career Institute of Technology, Easton, PA  
Delaware-Lehigh ARC, RR 4 Greystone Bldg, Nazareth, PA 18064-9211  
(610) 820-9110  
Talk-In 146.70

September 9 & 10, 1994:

Queen Wilhelmina State Park, Mena, Arkansas. \$2 park entrance fee, \$5 adm.  
Contact Gerald Wallis, N5KKD, (501) 524-3094

September 17&18, 1994:

Virginia Beach Hamfest \$6 adm, \$15 tailgating, \$30 tables, \$125 booths  
Virginia BEach Pavillion  
Manny Steiner, K4DOR, 3512 Olympia Lane, Virginia Beach, VA 23452  
(804) HAM-FEST

September 18,1994

South Jersey Radio Assn, 8AM-3PM, \$5 admission, \$5 tailgating  
Pennsauken High School Parking Lot, near US rt 130 / NJ rt 73  
Contact Diane Nafis, N2LCQ, (609) 227-6281, (609) 228-8088  
VEC Test Session registration at 9:30 AM  
Talk-In 145.290-

October 30, 1994:

Mason Dixon Hamfest 8AM-?, \$5 adm, \$5 tailgating, \$15 tables  
Carroll County Ag Center, Westminster, MD  
Mason Dixon Hamfest, PO Box 763, Hanover, PA 17331  
VE exams \$5.60, 9AM, reg 8AM, Page Evans NE3P, (717) 359-7610  
Talk-In 145.410-

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Date: 1 Apr 1994 14:21:06 GMT  
From: usc!howland.reston.ans.net!pipex!sunic!trane.uninett.no!eunet.no!EU.net!  
Germany.EU.net!netmbx.de!zrz.TU-Berlin.DE!zib-berlin.de!news.belwue.de!news.uni-  
stuttgart.de!news@@ihnp4.ucsd.edu  
Subject: Q: FT890 mod  
To: ham-equip@ucsd.edu

Hi there !

I read about the modification of a FT890 for TX 1,5 to 30 MHz.  
During the procedure a selection of "mode" "02 on" is mentioned.

Does anybody know what the other possible settings do ?

Thanks !

Wolfgang DH9SBR

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Date: Fri, 1 Apr 1994 08:22:10 GMT  
From: lerc.nasa.gov!magnus.acs.ohio-state.edu!csn!col.hp.com!news.dtc.hp.com!  
hplextra!hplb!hpwin052!hpmoea!dstock@purdue.edu  
Subject: RF and AF speech processors. Was: FT-990 vs TS-850  
To: ham-equip@ucsd.edu

Alan Bloom (alanb@sr.hp.com) wrote:

: Crystal filters designed for receive filtering are not optimum  
: for a transmitter SSB generator.

: AL N1AL

Yippee ! Thanks, Alan. That one little fact is always a shock  
to everyone I explain it to.

Think of two expensive-grade Japanese rigs in QSO. The transmitting  
rig will have an SSB generator with crystal IF filter, an RF clipper (Tx  
IF would be a better adjective) and another SSB crystal filter. For  
economy, the radio will use SSB filters designed for Rx selectivity as  
the same filters are switched into the receive path. Serious Dxers will,  
of course, have changed them for especially narrow ones. At the  
receiving end, the posh radio on receive will have two SSB crystal  
filters in use, one in its 9-ish MHz IF, and one in its 455 kHz IF.

The sound that reaches the listener's ears can have passed through  
FOUR receiving-spec crystal filters, some or all of which could be  
special extra-narrow ones.

We are talking of up to 32 poles of crystal filtering, as four sets  
of 8-pole 2.4kHz wide sections. Just look in Zverev to see the group  
delay and ringing characteristics.

Those filters are important in the receiver, but quite inappropriate  
in the transmitter, we could halve the damage done to the sound quality.

My thoughts for a home-brew ultimate rig are running towards phasing  
SSB generation, IF speech processing and then a >3kHz wide crystal  
filter as a post-clipper clean-up. Carrier and opposite sideband  
suppression will be the sum of the performance of the phasing system and  
the crystal filter, so neither need produce spectacular performance.

Experiments have shown a good, clean, controlled output spectrum,

limited by power amp intermod products, and the audio quality was outstanding.

Here in the 1990s I'm daydreaming about DSP'ing a similar scheme, Hilbert-transform based SSB generation, arithmetic clipping, and a digital SSB filter feeding a DAC producing a low IF to make a cheap and excellent SSB generator/speech processor.

Multiband audio processing looks attractive, but it is the peak of the sum of all the bands that is what has to be controlled, so I think this may not be the best technique. There is, of course no technique that is RIGHT, but some are better than others....

Amusingly, some of the fancy DSP based speech processor techniques turn out to be "RF processors" in digital form.

Cheers,

David

(It's refreshing to have a decent technical debate going in place of the code wars and hand-held questions...)

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Date: Fri, 1 Apr 1994 15:01:14 GMT  
From: ihnp4.ucsd.edu!usc!cs.utexas.edu!swrinde!emory!wa4mei!ke4zv!  
gary@network.ucsd.edu  
Subject: Which HF rigs have Transverter Jacks?  
To: ham-equip@ucsd.edu

In article <1994Apr1.002144.141549@yuma> galen@picea.CFNR.ColoState.EDU (Galen Watts) writes:

>Subject line says most of it. I know the Kenwood TS-820 has 'em and I've  
>heard the TS-430 has 'em, but I'm not sure. I'm mostly interested in  
>synthesized rigs, but any info is greatly appreciated!!!  
>Galen, KF0YJ

Icom IC-735 has them, IC-725 doesn't.

Gary

--

Gary Coffman KE4ZV		You make it,		gatech!wa4mei!ke4zv!gary
Destructive Testing Systems		we break it.		uunet!rsiatl!ke4zv!gary
534 Shannon Way		Guaranteed!		emory!kd4nc!ke4zv!gary
Lawrenceville, GA 30244				

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Date: 1 Apr 1994 12:46:17 GMT  
From: ihnp4.ucsd.edu!agate!howland.reston.ans.net!darwin.sura.net!  
news.larc.nasa.gov!grissom.larc.nasa.gov!kludge@network.ucsd.edu  
To: ham-equip@ucsd.edu

References <1994Mar30.150833.7038@arrl.org>,  
<1994Mar31.004345.251@ke4zv.atl.ga.us>, <1994Mar31.143525.7073@arrl.org>larc.n  
Subject : Re: RF and AF speech processors. Was: FT-990 vs TS-850

In article <1994Mar31.143525.7073@arrl.org> zlau@arrl.org (Zack Lau (KH6CP))  
writes:

>The point is, does the audio phase shift networks used in the 2010  
>cause a noticeable degradation in audio quality as perceived by  
>the users of the radio? And, since we are primarily talking  
>about SSB, as opposed to AM, there is \*no\* benefit to having  
>a detector that can correlate the upper and lower sidebands--we  
>only have one sideband to work with on receive.

Yes, indeed, it does cause a noticeable degradation in audio quality.  
In the case of units like the 2010 which are primarily going to be used  
to listen to commercial broadcasters, there is a good bit of benefit in  
having a detector that can correlate both sidebands, though admittedly  
for ham work, it's much less of a requirement.

But it basically comes down to how much audio degradation you mind. If  
I am listening to a commercial shortwave broadcaster, I expect much higher  
fidelity than I do from amateur SSB transmission. With SSB, I just want  
to be able to make out the words. (On the other hand, I expect a lot  
more from wideband FM broadcast, although I don't always get it...)

--scott

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"C'est un Nagra. C'est suisse, et tres, tres precis."

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End of Ham-Equip Digest V94 #91

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